


THE JOHNS HOPKINS UNIVERSITY
BALTIMORE, MARYLAND

Conferring of Degrees
at the close of the eighty-fourth academic year



JUNE 14, 1960
Keyser Quadrangle



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ORDER OF PROCESSION

The Graduates

Marshals

JOHN W. GRYDER	CARL P. SWANSON
ALVIN NASON	GEORGE E. OWEN
JAMES C. COLEMAN	WILLIS C. GORE
JAMES E. DEESE	S. K. FRIEDLANDER
JAMES KUETHE	CHARLES M. WYLIE
PALMER H. FUTCHER	NATHAN EDELMAN

WILLIAM C. JOHNSTONE, JR.

*

The Faculties

Marshals

CHARLES E. RENN and JAMES W. POULTNEY

*

The Deans, The Trustees and Honored Guests

Marshals

RICHARD H. GREEN and M. GORDON WOLMAN

*

The Commencement Speaker

The Chaplain

The Chairman of the Board of Trustees

The Presentor of the Honorary Degree Candidate

The President of the University

Chief Marshal

DONALD H. ANDREWS

Assistant Marshal

HOWARD E. COOPER

*

*The ushers are undergraduate students of
The Johns Hopkins University*

ORDER OF EVENTS

Milton Stover Eisenhower, President of the University, presiding

*

PROCESSIONAL

MARCH FROM ARIADNE SYMPHONY — GUILMANT

John H. Elterman, Organist

The audience is requested to stand as the Academic Procession moves into the area and to remain standing until after the Invocation and the singing of the National Anthem.

*

INVOCATION

The Reverend Elmer L. Kimmel

*

THE STAR SPANGLED BANNER

THE UNIVERSITY ODE

*

GREETINGS TO PARENTS

The President of the University

*

CONFERRING OF HONORARY DEGREE

JOHN WILLIAM NASON

Presented by Professor Maurice Mandelbaum

*

ADDRESS

JOHN WILLIAM NASON

President, Foreign Policy Association

ORDER OF EVENTS

Continued

CONFERRING OF DEGREES ON CANDIDATES

Presented by Dean G. Heberton Evans, Jr.:

BACHELORS OF ARTS

Presented by Dean Robert H. Roy:

BACHELORS OF ENGINEERING SCIENCE

MASTERS OF SCIENCE IN ENGINEERING • DOCTORS OF ENGINEERING

Presented by Dean Richard A. Mumma:

BACHELORS OF SCIENCE • BACHELORS OF SCIENCE IN NURSING

BACHELORS OF SCIENCE IN ENGINEERING

MASTERS OF SCIENCE IN ENGINEERING

MASTERS OF EDUCATION

CERTIFICATES OF ADVANCED STUDY IN EDUCATION

Presented by Dean Ernest L. Stebbins:

MASTERS OF SCIENCE IN HYGIENE • DOCTORS OF SCIENCE IN HYGIENE

MASTERS OF PUBLIC HEALTH • DOCTORS OF PUBLIC HEALTH

Presented by Dean Thomas B. Turner:

DOCTORS OF MEDICINE

Presented by Dean Philip W. Thayer:

MASTERS OF ARTS, DOCTOR OF PHILOSOPHY

SCHOOL OF ADVANCED INTERNATIONAL STUDIES

Presented by Dean G. Heberton Evans, Jr.:

MASTERS OF ARTS IN TEACHING

MASTERS OF ARTS • DOCTORS OF PHILOSOPHY

*

CHARGE TO GRADUATES

The President of the University

*

BENEDICTION

*

RECESSIONAL

GRAND CHORUS — DESHAYE

*The audience is requested to remain standing after the Benediction
until the faculties and graduates have left the area.*

ACADEMIC DRESS

A Word of Explanation

THE history of academic dress reaches far back into the early days of the oldest universities. Gowns and hoods were probably necessary for warmth in the unheated buildings frequented by medieval scholars.

The code of academic dress in the United States was adopted about sixty years ago at a conference of representative institutions called for the purpose. Gowns have pointed sleeves for the bachelor's degree, long closed sleeves (with a slit for the arms) for the master's degree, and bell-shaped open sleeves for the doctor's degree. The hood is three feet for the bachelor's, three and one-half for the master's, and four feet for the doctor's. The cap is the same for all degrees except that a golden tassel may be worn on the doctor's cap.

Gown and hood may be trimmed with velvet of a color indicating the field of knowledge. Some of the colors frequently seen are these:

<i>Arts and Letters:</i>	White
<i>Education:</i>	Light Blue
<i>Engineering:</i>	Orange
<i>Law:</i>	Purple
<i>Medicine:</i>	Green
<i>Philosophy:</i>	Dark Blue
<i>Public Health:</i>	Salmon Pink
<i>Science:</i>	Golden Yellow
<i>Theology:</i>	Scarlet

The hood is lined with the colors of the university or college awarding the degree. Institutional colors may also be seen in the gowns of some British universities and Harvard (crimson) and Yale (blue).

The hood presented today to the recipient of the honorary degree Doctor of Laws is trimmed with purple and lined with Hopkins colors—field of sable with chevrons of old gold.

CANDIDATES FOR DEGREES

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ROBERT WERTZ BAKER, of Baltimore, Md.
RAYMOND HORACIO BASORA, of New York, N. Y.
LARRY BECKER, of Baltimore, Md.
WILLIAM BERG, III, of Glen Echo, Md.
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BERNARD HARVEY BERNE, of Brooklyn, N. Y.
KENNETH I. BERN, of Shaker Heights, Ohio
ROLF HARTWIG BESSIN, of Caracas, Venezuela
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EUGENE JOSEPH BOYER, of New York, N. Y.
ROBERT HUGH BRANNAN, of Baltimore, Md.
MICHAEL JUSTIN BRECHER, of New York, N. Y.
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DONALD R. BRITT, of Baltimore, Md.
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ROBERT JOHN BRUENING, of Baltimore, Md.
JOHN WILLIAM CASAZZA, of North Plainfield, N. J.
LAP CHING CHONG, of Macau, of South China
JEROME DAVID COHEN, of Baltimore, Md.
RONALD JERRY COHN, of Baltimore, Md.
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WILLIAM NORWOOD COLLISON, of New York, N. Y.
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ROGER CLEMENT CROCKER, of Baltimore, Md.
RICHARD WILLIAM DANFORTH, of Hyattsville, Md.
RICHARD MARTIN DANZIGER, of White Plains, N. Y.
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DONALD JOHN DIETZ, of Baltimore, Md.
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 JAMES MORTIMER YOUNG, of Dundalk, Md.
 ALAN JAY ZATZ, of Schenectady, N. Y.

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Graduating with General Honors

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KENNETH I. BERNs
EUGENE JOSEPH BOYER
HOLLIS BRYAN BREWER, JR.
JOHN MICHAEL BREWER
EDWARD MORGAN DUDLEY, JR.
STUART HANDWERGER

JOEL HIRSH KRAMER
GILBERT GERLASH MALONE
THOMAS OWEN MCCANN
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DUANE PAUL MYERS
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RICHARD LOUIS POPP
JAMES GAYLORD RAMSAY, JR.
A. RALPH ROSENTHAL
ROBERT JAMES RYAN
BERNHARD DAVID SAXE
JOHN DAVID STRANDEERG
DOUGLAS RADCLIFF UMSTEAD
MICHAEL JEFFREY YARUS

Graduating with Departmental Honors

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EDWARD MORGAN DUDLEY, JR.
OSCAR GARCIA-RIVERA
STEPHEN HOWARD KASSEL
GILBERT GERLASH MALONE

RICHARD EARL MCCARTY
EDWARD ISAAC MEYERS
EDWARD CARROLL MILLER, III
ROBERT ANTHONY MILLER
DUANE PAUL MYERS
WESLEY ALBERT PATTERSON

WILLIAM TORSCH PLUMMER
ROBERT JAMES RYAN
BERNHARD DAVID SAXE
DOUGLAS RADCLIFF UMSTEAD
EDWARD JAMES WALDMAN
MICHAEL JEFFREY YARUS

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GERALD BYRNES KLEBE, of Baltimore, Md.
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 THOMAS AUGUSTUS VAN SANT, III, of Baltimore, Md.
 ALAN BURTON WAGNER, of Akron, Ohio
 EARL DENNIS WARNER, of Red Lion, Pa.
 CHARLES FRANCIS WILLIS, III, of Trappe, Md.
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 HARVEY WOLFE, of Baltimore, Md.
 HENRY ZEITLER WOOTTON, of Baltimore, Md.
 JOHN RICHARD YATES, of Baltimore, Md.
 STEPHEN ALBERT YUHAS, JR., of Perth Amboy, N. J.

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Graduating with Highest Honors

WILLIAM JOHN BRYA

DONALD ROSS LAMPE

Graduating with Honors

DONALD EUGENE GAASTERLAND

BORIS FINCANNON KIM

JUAN MIGUEL SABATER

MASTERS OF SCIENCE IN ENGINEERING

with titles of essays

FAUSTO ABRIL O., of Panama, Republic of Panama, B.E.
 University of Panama, 1958. Sanitary Engineering and
 Water Resources.

A Review on Sewage Disposal in the Oceans: The Role
 of Density in the Dilution Phenomena.

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Reduction of Biological Growths on Small Activated
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CHARLES EUGENE BELL, JR., of Baltimore, Md., B. E. The
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 An Industrial Problem in Material Control.

GARLAND CUZORTE BLACK, JR., of Brooklyn, N. Y., B. S.
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 neering.

Control of Telephone Sets in a Public Utility. Part III.
 Criteria and Their Measures in Optimizing the Con-
 trol of Telephone Sets.

H. CLARK CARBAUGH, of Baltimore, Md., B. C. E. University
 of Delaware, 1956. Sanitary Engineering and Water
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Rapid Solution of the Simplified Oxygen-Sag Equation.

ANTONIO ELOY CARRETERO, of Mendoza, Argentina, B. E.
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An Evaluation of the Efficiency of Trickling Filters.

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High Rate Disinfection of Water Supplies.

ROBERT JOSEPH EDWARDS, of Baltimore, Md., B. E. S. The
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The Static and Vibratory Cutting and Penetration of
 Cohesive Soils.

FREDERICK CHRISTIAN EVERING, JR., of Baltimore Md., B. E. S.
 The Johns Hopkins University, 1958. Electrical Engi-
 neering.

The Measurement of the Surfaces of Small, High Speed
 Commutators by Microwave Techniques.

T'SO-HSIONG FANN, of Tainan, Taiwan, Republic of China,
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 Drainage Areas.

- ARTHUR HERBERT FIESER, of Baltimore, Md., B. Ch. E. Rensselaer Polytechnic Institute, 1950; B. Mgt. E., 1950. Industrial Engineering.
Effect of Stall Markings on Automobile Parking.
- WILLIAM JOHN GILGICH, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1957. Mechanical Engineering.
The Response of Bonded Wire Resistance Strain Gauges to Large Amplitude Waves in Annealed Aluminum.
- RODOLFO GONZÁLEZ MORASSO, of Guatemala City, Guatemala, B.E. San Carlos University, Guatemala, 1959. Sanitary Engineering and Water Resources.
Analysis of Demand-Temperature, Demand-Rainfall Relationships.
- RICHARD ARLEN HOWELL, of Glen Arm, Md., B. E. The Johns Hopkins University, 1955. Mechanical Engineering.
Characteristics of a Parachute Cluster.
- KOU-YING HSIUNG, of Taipei, Taiwan, Republic of China, B. S. Chiao-Tung University, Tangshan, North China, 1943. Sanitary Engineering and Water Resources.
Study of the Possibility of an Upward Flow Filter to be Used in Practice.
- DAVID SOLOMON HYMAN, of Baltimore, Md., B. S. University of Maryland, 1949. Civil Engineering.
Planning Downtown Baltimore: A Study of the City and Its Core.
- HSIAO-CHO KAO, of Kangshan, Taiwan, Republic of China, B. Sc. National Taiwan University, 1954. Civil Engineering.
Numerical Integration of the Equations of a Vortex in a Viscous Fluid.
- IHOR KOSZMAN, of Utica, N. Y., A. B. Columbia University, 1955; B. S., 1956. Chemical Engineering.
Development of Charge in Low Conductivity Liquids Flowing Past Metallic Surfaces.
- IRVIN WILLIAM KUES, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1957. Industrial Engineering.
Newspaper Local Display Advertising—Analysis of Photocomposition Costs.
- EWOUT STIJN CORNELIS MEYERINK, of Zevenbergen, The Netherlands. Chemical Engineering.
Diffusion Controlled Reactions in Fully Developed Turbulent Pipe Flow.
- RICHARD JOSEPH MOFF, of Williamsport, Pa., B. E. in E. E. University of Notre Dame, 1952. Electrical Engineering.
Critical Review of Root Locus Techniques.
- NICOLAS ILIESCU MOGA, of Baltimore, Md., B. A. Roumanian Military College, 1943. Civil Engineering.
Analysis of a Helicoidal Girder.
- FRANK JOSE PIÑEYRO, of Ciudad Trujillo, Dominican Republic, C. E. University of Santo Domingo, 1958. Sanitary Engineering and Water Resources.
Equalizing Storage Requirements in Residential Areas.
- VICHAI PUCKDEEDINDAN, of Bangkok, Thailand, B. S. in C. E. Chulalongkorn University, 1956. Sanitary Engineering and Water Resources.
A Review of Storm Drainage Design Practice.
- STANLEY THEODORE SEBASTIAN, of Basseterre, St. Kitts, West Indies, Manchester College of Technology, England, 1955. Sanitary Engineering and Water Resources.
The Removal of Turbidity Due to *Chlorella* in the Effluent of Sewage Oxidation Ponds.
- CLIFFORD VAUGHN SMITH, JR., of Philadelphia, Pa., B. S. in C. E. The State University of Iowa, 1954. Sanitary Engineering and Water Resources.
Effectiveness of Cellulose Filter Cartridges in Removing Cysts.
- EDWARD MURRAY SMITH, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1959. Sanitary Engineering and Water Resources.
The Deposition of Radioactive Debris into the Surface Water Environment.
- ABRAHAM SORIANO, of Tel Aviv, Israel, B. Mgt. E. Rensselaer Polytechnic Institute, 1954. Industrial Engineering.
Queueing Theory Applied to the Analysis of Congestion in an Outpatient Department.
- ALBERT ROBERT STALLKNECHT, of Randallstown, Md., B. E. The Johns Hopkins University, 1952. Civil Engineering.
Stress Relaxation Effects in Soil Compaction.
- JUNG HYUN SUH, of Seoul, Korea, B. S. Seoul National University, 1957. Sanitary Engineering and Water Resources.
A Study of Human Excreta.
- MANJAIYA SATYA NARAYANA SWAMY, of Mysore, India, B. Sc. Central College, Bangalore, 1949; B. E. University College of Engineering, Bangalore, 1954. Sanitary Engineering and Water Resources.
Role of Organic Sulphur in the Nutrition and Growth of Bacterial Slimes.
- WILLIAM BLACKBURN WIDHELM, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1959. Electrical Engineering.
Survey of Some General Mathematical Methods for Solving Linear Time-Varying Systems.
- SYRATI YORGIADIS, of Istanbul, Turkey, B. S. in C. E. Robert College, 1957. Sanitary Engineering and Water Resources.
A Study of the Relationship of Maximum Short Interval Rainfall Intensity to the Duration of the Intense Part of a Storm.

DOCTORS OF ENGINEERING

with titles of dissertations

THEODORE ALBERT BICKART, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1957; M. S. E., 1958. Electrical Engineering.

Flowgraphs for Nonlinear Systems.

ROBERT JOSEPH CONNOR, of Long Beach, N. Y., B. E. S. The Johns Hopkins University, 1956. Industrial Engineering.

A Hospital Inpatient Classification System.

EDMUND MARCUS GLASER, of Baltimore, Md., B. E. E. The Cooper Union, 1949; M. S. E. The Johns Hopkins University, 1954. Electrical Engineering.

Signal Detection by Adaptive Filters.

EUYEN GOTT, of Kwangsi, China, B. S. National Kwangsi University, 1938; M. A. Stanford University, 1945. Electrical Engineering.

A Study of the Phase Principle of Signal Detection.

MARVIN ANTHONY GRIFFIN, of Lutherville, Md., B. Ind. Mgt. Alabama Polytechnic Institute, 1949; M. S. E. University of Alabama, 1952. Industrial Engineering.

Operations Research in Budgeting.

CECIL HALE HULL, of Towson, Md., B. S. United States Naval Academy, 1945; M. S. E. The Johns Hopkins University, 1950. Sanitary Engineering and Water Resources.

Simplified Technique for Determination of Theoretical and Effective Self-Purification Coefficients of Polluted Streams.

ROBERT SIDNEY KAPNER, of Albany, N. Y., B. Ch. Eng. Polytechnic Institute of Brooklyn, 1950; M. S. University of Cincinnati, 1952. Chemical Engineering.

Product and Reactant Distribution in a Simulated Catalytic Reactor.

DAVID CHIN LAI, of Taipei, Taiwan, Republic of China, B. Sc. in E. National Taiwan University, 1954. Electrical Engineering.

Signal Representation and Dirac's Notation.

JOHN HOWARD PARK, JR., of Baltimore, Md., B. S. University of Maryland, 1954. Electrical Engineering.

Statistical Estimation of Normalized Linear Signal Parameters.

EDWIN EUGENE PYATT, of Hermosa Beach, Calif., B. S. in E. California Institute of Technology, 1951; M. S. University of California, 1953. Sanitary Engineering and Water Resources.

A Study of the Behavior of the St. Johns River.

ROBERT EDWARD SPARKS, of Independence, Mo., B. S. University of Missouri, 1952. Chemical Engineering.

An Experimental Study of Liquid-Phase Turbulent Diffusion.

WILLIAM MAGRUDER WATERS, of Baltimore, Md., B. E. The Johns Hopkins University, 1950; M. S. E., 1956. Electrical Engineering.

Pulse Separation by Amplitude Filters.

(12)

BACHELORS OF SCIENCE

KATHERYN VIRGINIA RILEY ALMOND, of Baltimore, Md.

PAUL MARSHALL ANDERTON, of Baltimore, Md.

JOHN APRAHAMIAN, of Baltimore, Md.

CHARLES JERRY ARCILES, of Baltimore, Md.

EDWARD MILTON ARNOLD, of Baltimore, Md.

MANFRED BERNHARD ARNOLD, of Baltimore, Md.

LEONARD EDWARD AUMILLER, of Baltimore, Md.

ARTHUR DUNCAN BAILEY, JR., of Glen Burnie, Md.

JANE BARRATT BALFOUR, of Baltimore, Md.

MARY HEINEMAN BALTUS, of Baltimore, Md.

GILBERT LEE BARRON, of Baltimore, Md.

ERNEST WILLIAM BLOORE, of Bellmore, N. Y.

WARREN DUCRAY BOURQUIN, JR., of Towson, Md.

LEE SHIPLEY BOWERS, of Glen Arm, Md.

JAMES BENNETT BURGER, of Baltimore, Md.

JOHN WILLIAM CAREY, of Baltimore, Md.

TIMOTHY D. SKENE CATLING, of Baltimore, Md.

SARAH KATHERINE CREW, of Baltimore, Md.

EDWARD WILLIAM DIGGES, JR., of Baltimore, Md.

DONALD BENNETT EDWARDS, of Baltimore, Md.

ANNETTE ELLINGHAUS, of Baltimore, Md.

LEONA THATCHER EUBANK, of Baltimore, Md.

JOHN FRANK FLEMING, JR., of Baltimore, Md.

BERTHA CECILIA FRANKFURT, of Baltimore, Md.

JAMES BEIGHLEY FULLER, of Baltimore, Md.

NONA LEE GIESE, of Baltimore, Md.

STANLEY ALEXANDER GOLOWAY, of Timonium, Md.
 HENRY ROBERT HEID, of Baltimore, Md.
 RICHARD MILTON HENRY, JR., of Baltimore, Md.
 WILLIAM JOSEPH HEWITT, of Fullerton, Md.
 JOHN JOSEPH HOPKINS, of Severna Park, Md.
 KATHARINE JOHANNA KINDERVATTER, of Baltimore, Md.
 MARCIA JONES KING, of Baltimore, Md.
 A. DOUGLAS KIRK, JR., of Baltimore, Md.
 ANNA MAY KOBLARCHICK, of Baltimore, Md.
 NICOLI JANE MILLER LANG, of Baltimore, Md.
 JAMES BENJAMIN LEAGUE, JR., of Baltimore, Md.
 RONALD ARTHUR LEAHY, of Baltimore, Md.
 ALLAN JOSEPH LEMBITZ, of Baltimore, Md.
 MURRAY WILLIAM LINDENTHAL, of Baltimore, Md.
 ROBERT WINSLOW LINDSAY, of Towson, Md.
 WILLIAM FREDERICK LIST, of Linthicum Heights, Md.
 ANTHONY JOSEPH LUNGO, of Linthicum Heights, Md.
 GEORGE EURAL LUTTRELL, JR., of Baltimore, Md.
 CAROLINE TRINBLE LYDER, of Baltimore, Md.
 CAROL AILEEN MALTBY, of Pasadena, Md.
 ROBERT FRANCIS MCCLERNAN, of Baltimore, Md.
 JACK RUSSEL MELLON, of Baltimore, Md.
 V. MARION FOLEY MITCHELL, of Baltimore, Md.
 BARRY GORDON NEIBURGER, of Baltimore, Md.
 CHARLES ALBERT NOON, JR., of Lutherville, Md.
 JOHN JAMES NOONAN, of Baltimore, Md.
 KATHRYN ELIZABETH NUSBAUM, of Baltimore, Md.
 ADOLPH JOHN PICKALL, of Millersville, Md.
 LEO PIOVANO, of Baltimore, Md.

KAROLYN RUTH POYNTER, of Baltimore, Md.
 JUDITH LINDNER PROMISEL, of Washington, D. C.
 OTTAVIO RASETTI, of Baltimore, Md.
 WILLIAM SAWTELLE RATCHFORD, II, of Baltimore, Md.
 RAYMOND FRANK RESTA, of Baltimore, Md.
 MARGARET WOODLAND ROCKWELL, of Silver Spring, Md.
 RUBY ROGERS, of Ottawa, Ont., Canada
 EDWARD ROGOWSKI, of Baltimore, Md.
 NEIL SCHILLER, of Brooklyn, N. Y.
 HARRY FREDERICK SCHIMALE, JR., of Baltimore, Md.
 DONALD EDWARD SCHMELZ, of Baltimore, Md.
 ROBERT KENT SCRIVENER, of Baltimore, Md.
 DONALD GLENN SECRIST, of Baltimore, Md.
 FRANK WILLIAM SEGEL, of Baltimore, Md.
 ORDEANE PETRY SINGER, of Baltimore, Md.
 ALBERTA IRENE SINGEWALD, of Baltimore, Md.
 CHARLES LAWRENCE SOELCH, of Baltimore, Md.
 ZENO STANLEY STANGWILO, of Bel Air, Md.
 CLYDE GLENN ROY STAUP, of Linthicum Heights, Md.
 PAUL GEORGE STITIK, of Baltimore, Md.
 MICHAEL LOUIS STRAMELLA, of Glen Burnie, Md.
 FAIRFAX STUART, of Baltimore, Md.
 ELEANOR DARNALL TWOHY, of Baltimore, Md.
 EARL WALKER USSERY, of Baltimore, Md.
 LLOYD BEHLEN WEBB, of Baldwin, Md.
 GLORIA MARIE WENDEROTH, of Baltimore, Md.
 REUBEN YUDKOWSKY, of Baltimore, Md.
 LYDIA PEARL BUNTING ZINK, of Baltimore, Md.
 MYROSLAW ZOBNIW, of Baltimore, Md.

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Graduating with Honors

MARCIA JONES KING	ZENO STANLEY STANGWILO
JAMES BENJAMIN LEAGUE	FAIRFAX STUART
LLOYD BEHLEN WEBB	

BACHELORS OF SCIENCE IN NURSING

CYNTHIA CORRINE ALLEN, of Lisbon Falls, Me.
 ROSE MARIE ARDISON, of Riderwood, Md.
 ROSEMARY DAVIS BERNER, of Ogden Dunes, Ind.
 JANICE ANNETTE BROWN, of Twin Falls, Idaho
 MARGARET ANN CONDON, of Guatemala City, Guatemala
 JUNE ENCK EGOLF, of Carlisle, Pa.
 JULIA ANNE FREY, of Houston, Texas
 ELIZABETH TYLER GRIMES, of Baltimore, Md.
 VIRGINIA ANN HARTWIG, of South Gate, Calif.
 LINDA PRITTS HICKMAN, of Oakland, Md.
 ELLEN MARIE JOHNSON, of Jamestown, N. Y.
 ISABEL RITA JOSEPH, of Laurelton, N. Y.

HELEN SEIFERT KAER, of New Bern, N. C.
 DOROTHY LEE KIMBALL, of Alexandria, Va.
 ANNE JOHNSON MICHEL, of Farmville, Va.
 FRANCES HOLLAND O'BRIEN, of Bel Air, Md.
 JUNE CAROLYN PERSSON, of Baltimore, Md.
 MARTHA SYPIER SUMNER, of Moundsville, W. Va.
 ELIZABETH DAVIDSON TAFT, of Menlo Park, Calif.
 JOAN ALICE URCH, of Pottsville, Pa.
 LYNNE IRENE VINCZELLER, of Stow, Ohio
 NANCY ADELAIDE WAHAUS, of Baltimore, Md.
 MARY STOLL WIECKING, of Lawrenceville, Ill.
 DOROTHY LUCILLE WOODS, of Kittery Point, Me.

BACHELORS OF SCIENCE IN ENGINEERING

GEORGE THOMAS BATA, of Baltimore, Md.
VERNON BECK, JR., of Baltimore, Md.
ARMAND ARTHUR BILODEAU, of Baltimore, Md.
LOUIS JOSEPH BROCATO, of Baltimore, Md.
DENNIS JAMES BUCKLEY, of Severna Park, Md.
WILLIAM THOMAS BUTLER, JR., of Baltimore, Md.
JOHN HURST CHILDS, of Baltimore, Md.
JAMES RONALD CRICCHI, of Baltimore, Md.
CHARLES LEWIS CRUM, of Baltimore, Md.
WILLIAM CLEMENT DALLAM, of Hyde, Md.
CARL ERWIN DAVIS, of Baltimore, Md.
LAWRENCE E. DICKENS, of Baltimore, Md.
DAVID FRASER EIDMAN, of Baltimore, Md.
OSCAR GEORGES FARAH, of Damascus, Syria
HERBERT JOHN FEICK, of Baltimore, Md.
CALVIN LAWRENCE FICKETT, of Glen Arm, Md.
WILLIAM EDWARD FRENCH, JR., of Baltimore, Md.
DONALD CHARLES FRIEDMANN, of Baltimore, Md.
CHARLES ROBERT GARRETT, of Ellicott City, Md.
WILLIAM ANTHONY GECKLE, JR., of Baltimore, Md.
ALFONSO GUIDO, of Baltimore, Md.
EUGENE CALLAN HARVEY, of Baltimore, Md.
WILLIAM HARRY HOFFMAN, of Baltimore, Md.
JOHN CORNELIUS HUGHES, of Baltimore, Md.
WILLIAM JAMES HUGHES, of Lutherville, Md.

NEIL CHRISTIAN MEYERS JOHNSON, JR., of Cape St. Clair, Md.
CHARLES H. E. KAMPHAUS, of Baltimore, Md.
GERALD MEREDITH KEARNS, of Baltimore, Md.
RICHARD JOSEPH KRETZSCHMAR, of Baltimore, Md.
ROGER WILLIAM LIESKE, of Baltimore, Md.
JOHN ALEXANDER MACDONALD, JR., of Baltimore, Md.
GEORGE HARRISON MCGEE, of Baltimore, Md.
RICHARD PAUL MUELLER, of Baltimore, Md.
CHARLES KENNETH MULLEN, of Baltimore, Md.
BERNARD NELSON O'DONNELL, of Baltimore, Md.
ANDREW JENNINGS PARKER, JR., of Baltimore, Md.
PETER JOSEPH PIJOAN, of Baltimore, Md.
PHILIP NOBLE POWELL, of Baltimore, Md.
ARTHUR THOMAS REYNOLDS, JR., of Baltimore, Md.
GENE DOUGLAS ROBERTS, of Baltimore, Md.
BENJAMIN JOSEPH ROSCOE, of Baltimore, Md.
CHARLES WILLIAM SIDWELL, of Delta, Pa.
FREDERICK MILTON SIMONAIRE, of Baltimore, Md.
EMIL LEONARD SVENSSON, of Glen Burnie, Md.
OTTO JULIUS TASSI, of Baltimore, Md.
CECIL LEROY WILSON, of Owings Mills, Md.
GORDON LEIMBACH WOELPER, of Baltimore, Md.
CHARLES GEORGE WROTEN, of Millersville, Md.
LELAND BURTON ZAHALKA, of Timonium, Md.

(49)

Graduating with Honors

VERNON BECK, JR.
JOHN HURST CHILDS
EUGENE CALLAN HARVEY

ROGER WILLIAM LIESKE
JOHN ALEXANDER MACDONALD, JR.
EMIL LEONARD SVENSSON

MASTERS OF SCIENCE IN ENGINEERING

in McCoy College

with titles of essays

HAROLD DAVID AUSFRESSER, of Baltimore, Md., B. E. E. The Cooper Union, 1952. Electrical Engineering.
Superconducting Computer Circuits.

WILLIAM CAMPAS, of Baltimore, Md., B. S. in Eng. The Johns Hopkins University, 1957. Electrical Engineering.
Theory of Sequential Circuits and its Application to Synchronous Digital Computers.

WILLIAM W. GRIFFITHS, JR., of Catonsville, Md., B. S. Carnegie Institute of Technology, 1952. Electrical Engineering.
Nonlinear Receivers.

DAVID VALENTINE MACKES, of Baltimore, Md., B. S. E. E. Massachusetts Institute of Technology, 1950. Electrical Engineering.

A Survey of the Literature on Parametric Amplifiers.

WALTER WINFIELD PLEINES, of Baltimore, Md., B. E. The Johns Hopkins University, 1949. Electrical Engineering.
Probability Models of Distribution Transformer Demands.

(5)

MASTERS OF EDUCATION

- | | |
|---|---|
| <p>MILDRED BOWERS BLACKWELL, of Baltimore, Md., B. S. Morgan State College, 1950.</p> <p>JOSEPH ANTHONY BRUSINI, of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1956.</p> <p>ESTHER KRISTMAN FALK, of Harrisburg, Pa., B. S. The Johns Hopkins University, 1952.</p> <p>THOMAS ROBERT FOSTER, JR., of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1954.</p> <p>CLARENCE E. GOODE, JR., of Towson, Md., A. B. University of Pittsburgh, 1951.</p> <p>LOUISA LAWS HARSTON, of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1956.</p> <p>SOLOMON KAREN, of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1954.</p> <p>LOUISE WILLIER KEHOE, of Bigfork, Mont., B. S. The Johns Hopkins University, 1953.</p> <p>HAROLDYN MAPES, of Baltimore, Md., A. B. St. Olaf College, 1932.</p> <p>BERKLEY OWEN MATTHEWS, of Baltimore, Md., A. B. College of William and Mary, 1934.</p> <p>BETTY ELISE MAX, of Baltimore, Md., A. B. Swarthmore College, 1955.</p> <p>DOROTHY LOUISE NOBLE, of Annapolis, Md., A. B. Hood College, 1930; A. M. Columbia University, 1934; Ph. D. 1958.</p> | <p>LEO REICH, of Baltimore, Md., B. B. A. The College of the City of New York, 1948.</p> <p>ELIZABETH ELLEN ROBERTS, of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1949.</p> <p>BERNARD DAVID SMITH, of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1953.</p> <p>MARCELLA DEAN SPIGELMIRE, of Baltimore, Md., B. S. The Johns Hopkins University, 1956.</p> <p>LEWIS WINFIELD STEPHENS, of McDonogh, Md., B. S. The Johns Hopkins University, 1957.</p> <p>DOROTHY WOOD STERN, of Baltimore, Md., B. S. Coppin State Teachers College, 1953.</p> <p>WILLIAM BENJAMIN STONESIFER, of Phoenix, Md., B. S. The Johns Hopkins University, 1954.</p> <p>SIDNEY TEPPER, of Baltimore, Md., B. S. The Johns Hopkins University, 1952.</p> <p>MARGARET MARY MINAHAN TILLMAN, of Baltimore, Md., B. S. University of Maryland, 1957.</p> <p>PATRICIA LOU CONNOLLY VINCENT, of Lawrenceville, Ga., B. S. Spring Hill College, 1954.</p> <p>DOROTHY ESTELLE BESSEL WILKERSON, of Baltimore, Md., B. S. The Johns Hopkins University, 1942.</p> <p>RUTH BELL BONNERT ZACHARY, of Baltimore, Md., B. S. The Johns Hopkins University, 1953.</p> |
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(24)

CERTIFICATES OF ADVANCED STUDY IN EDUCATION

- | | |
|--|---|
| <p>MADELIND ROSALIND ALLEN, of Baltimore, Md., B. S. Morgan State College, 1941; M. A. New York University, 1951.</p> <p>RICHARD KENNETH MCKAY, of Reisterstown, Md., B. A. The Johns Hopkins University, 1943; M. Ed. 1953.</p> | <p>ALDONA SINUSH VANDERLAIN, of Baltimore, Md., B. S. The Johns Hopkins University, 1945; M. A., 1950</p> <p>IVA SHIPLEY WEHLAND, of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1950.</p> |
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(4)

MASTERS OF SCIENCE IN HYGIENE

with titles of theses

- | | |
|---|---|
| <p>MYA MAUNG, of Rangoon, Burma, B.Sc. University of Rangoon, 1952. Pathobiology (Medical Entomology).
The Inheritance of Resistance to Dieldrin in a Population of <i>Culex pipiens fatigans</i> Wied.</p> | <p>PHILIP RANSOM ROANE, JR., of Baltimore, Md., B. S. Morgan State College, 1952. Microbiology.
Studies of the Agglutination of Red Blood Cells by Polyoma Virus.</p> |
|---|---|
- HENRY LAUGHTON SHORT, of Shortsville, N. Y., B. A. Swarthmore College, 1956. Public Health Administration (Mental Hygiene, Comparative Behavior).
A Description of the Growth of Young Mexican Free-Tailed Bats with Comments on Reproductive Organs.

(3)

DOCTORS OF SCIENCE IN HYGIENE

with titles of dissertations

- ANITA KAPLAN BAHN, of Silver Spring, Md., A. B. Hunter College, 1939. Biostatistics.
A Methodological Study of the Outpatient Psychiatric Clinic Population of Maryland, 1958-1959.
- SIDNEY HARSHMAN, of Youngstown, Ohio, B. S. Western Reserve University, 1950. Biochemistry.
Serum Mucoids of Man.
- JESSE HARRISON HOBBS, of Hampton, Va., A. B. Emory University, 1948; M. A. University of North Carolina, 1950. Pathobiology (Medical Entomology).
Cytogenetics of *Anopheles albimanus*.
- LOUIS GERHARD HOFFMANN, of Baltimore, Md., B. A. Wesleyan University, 1953; Sc. M. in Hyg. The Johns Hopkins University, 1958. Microbiology.
Purification of the First and Fourth Components of Guinea Pig Complement and Studies on Their Mechanism of Action.
- SUE FLICK MATHEWSON, of Canfield, Ohio, B. A. Oberlin College, 1956. Public Health Administration (Mental Hygiene, Comparative Behavior).
Pituitary Gonadotrophic Hormones and Aggressive Behavior in Male Starlings.
- ROBERT LEROY SNYDER, of Chambersburg, Pa., B. S. Pennsylvania State University, 1950; M. S., 1952. Public Health Administration (Mental Hygiene, Comparative Behavior).
Physiologic and Behavioral Responses to an Altered Sex Ratio of Adults in a Population of Woodchucks.
- MARVIN BERNARD TALMADGE, of Baltimore, Md., B. A. New York University, 1946; M. S., 1955. Biochemistry.
A Chemically Defined Medium for Growth, Transformation and Isolation of Nutritional Mutants of *Hemophilus influenza*.
- JANE WILCOX, of Rockville, Md., B. A. Barnard College, 1936; M. N. Yale University, 1939; M. P. H. The Johns Hopkins University, 1957. Public Health Administration.
A Study of Observer Factors in the Measurement of Blood Pressure.
- SAMUEL DAH-JUH YEH, of Taipei, Taiwan, Republic of China, M. D. National Defense Medical Center, Shanghai, 1948. Biochemistry.
Studies on Vitamin B₆ Deficiency in Relationship to Vitamin B₁₂ Absorption.
- RODRIGO ZELEDON-ARAYA, of San Jose, Costa Rica, Lic., University of Costa Rica, 1952. Pathobiology.
Comparative Physiological Studies on Four Species of Hemoflagellates in Culture.

(10)

MASTERS OF PUBLIC HEALTH

- KIRAN CHANDRA ADHIKARI, of Assam, India, M. B. B. S. University of Gauhati, 1954.
- WILLIAM CECIL ALLEN, of Jefferson City, Mo., A. B. University of Nebraska, 1947; M. D., 1951.
- RAMÓN ALVAREZ GUTIÉRREZ, of Mexico, D. F., Mexico, M. D. National Autonomous University of Mexico, 1952.
- DOLORES ROSEMARY BASCO, of Chicago, Ill., B. S. University of Minnesota, 1950.
- MURIEL SEAVER BIGLER, of Syracuse, N. Y., B. A. De Pauw University, 1943; M. D. Indiana University, 1947.
- NEMAT OLLAH BORIHANI, of Concord, Calif., B. A. American College of Tehran, 1943; M. D. University of Tehran, 1949.
- GERTRUDE LELAND BRAMLEY, of Jordan, N. Y., B. S. Cornell University, 1938; M. D. Syracuse University, 1949.
- BETTY LIGGETT CUTHBERT, of Marysville, Ohio, B. S. The Johns Hopkins University, 1953.
- EDWARD AUGUST DIEPHAUS, of Cincinnati, Ohio, B. S. Xavier University, 1956.
- MAUDE DISEKER, of Birmingham, Ala., A. B. Birmingham Southern College, 1950; M. D. Medical College of Alabama, 1955.
- CARMINE AMABILE FERULLO, of Rome, Italy, Dr. C. E. University of Padua, 1946.

- DONALD ERNST FISHER, of Ellicott City, Md., M. D. University of Maryland, 1947.
- JACK HERBERT FOOKS, of Linwood, Pa., B. C. E. University of Delaware, 1941; M. S. S. E. University of North Carolina, 1948.
- GEORGE EVERETT GARRINGTON, of Sumter, S. C., D. D. S. University of Maryland, 1953.
- WILFRED CHARLES GILBERT, of Tempe, Ariz., B. S. Virginia Polytechnic Institute, 1943; S. M. Massachusetts Institute of Technology, 1947.
- SILVIO GÓMEZ ARANGO, of Manizales, Colombia, M. D. National University of Colombia, 1954.
- CLARENCE EDWARD GOSSETT, U. S. Navy, B. A. University of Arkansas, 1948; M. D. Vanderbilt University, 1951.
- JUL ALBERT HANSEN, of Oslo, Norway, M. D. University of Oslo, 1947.
- DALE EMERSON HARRO, of Harrisburg, Pa., A. B. Wheaton College, 1953; M. D. Temple University, 1954.
- MARGARET RHYS HAWKINS, of Baltimore, Md., B. S. The Johns Hopkins University, 1952.
- DONALD AINSLIE HENDERSON, of Lakewood, Ohio, A. B. Oberlin College, 1950; M. D. University of Rochester, 1954.
- ROGER GORDON IRELAND, U. S. Navy, M. D. University of Colorado, 1948.
- TRIBHUWAN PRASAD JAIN, of Jaipur, India, B. Sc. Agra University, 1947; M. B. B. S. University of Rajputana, 1954; D. P. H. University of Calcutta, 1959.
- PAUL DUDLEY LAMBERT, of Beaver Falls, Pa., B. S. Geneva College, 1950; V. M. D. University of Pennsylvania, 1954.
- RECTOR SELLS LE GARDE, of Orange, Va., B. S. King College, 1931; M. D. Medical College of Virginia, 1935.
- CARL JOSEPH MARIENFELD, of Bethesda, Md., B. A. Lake Forest College, 1938; M. D. University of Illinois, 1943.
- ISIDRO MARTÍNEZ MARTÍNEZ, of Río Piedras, Puerto Rico, M. D. National Autonomous University of Mexico, 1948; M. P. H., 1950.
- CLIFFORD LEE MAYHEW, U. S. Air Force, B. S. Franklin and Marshall College, 1952; M. D. The Jefferson Medical College, 1956.
- RICHARD KEWENIGE MILLER, U. S. Air Force, A. B. University of Nebraska, 1941; M. D., 1945.
- JAMES THOMAS MOORE, U. S. Air Force, A. B. University of Colorado, 1951; M. D., 1954.
- DODBALLAPUR PUTTANNA NARASIMHA MURTHY, of Bangalore, India, B. Sc. University of Mysore, 1945; M. B. B. S., 1952.
- MARIA PEISTER, of Geneva, Switzerland, M. D. University of Zurich, 1937.
- MOHAMMAD HASSAN RAHNAVARDI, of Tehran, Iran, D. D. S. University of Tehran, 1952.
- ALEXANDER RICHMAN, of Vancouver, Canada, M. D. The University of Manitoba, 1953.
- ARTHUR ALLPORT WILLIAM ROE, of Perth, Australia, M. B. B. S. University of Queensland, 1942.
- SAYED MURTAZA SAIDI, of Kabul, Afghanistan, M. D. University of Kabul, 1948.
- MAS SARDJITO, of Jogjakarta, Indonesia, M. D. University of Leiden, 1923.
- MARVIN PAUL SHELDON, of Bethesda, Md., B. S. The College of the City of New York, 1939; D. M. D. Tufts University, 1943.
- JACK TURNER SWAN, of Fort Valley, Ga., B. A. Vanderbilt University, 1952; M. D., 1956.
- DEAN FOLLANSBEE TIRADOR, of Sunnyvale, Calif., B. A. University of Oklahoma, 1953; M. D. Marquette University, 1956.
- ROBERT ARTHUR JOHN WEBB, of Barbados, West Indies, M. B. B. S., M. R. C. S., L. R. C. P. University of London, 1952.
- WESLEY WILLIAM WIELAND, of Waynesboro, Va., B. S. University of Pittsburgh, 1935; M. D., 1938.
- MYRON JAMES WOLTJEN, U. S. Air Force, B. S. University of Minnesota, 1947; M. B., 1949; M. D., 1950.

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DOCTORS OF PUBLIC HEALTH

with titles of theses

JOHN BANCROFT AIWATER, of Bronxville, N. Y., A. B. Oberlin College, 1951; M. D. Yale University, 1955; M. P. H. The Johns Hopkins University, 1959. Public Health Administration.

Measures of the Migrant Farm Labor Population and Certain of its Health Problems.

LEE MILTON HOWARD, of Baltimore, Md., B. S. Baylor University, 1945; M. D. The Johns Hopkins University, 1947; M. P. H. 1958. Pathobiology (Medical Entomology).

Studies on the Mechanism of Infection of the Mosquito Midgut by *Plasmodium gallinaceum*.

THOMAS RAYMOND MCGOWAN, of Tampa, Fla., B. S. Emory University, 1941; M. D., 1943; M. P. H. The Johns Hopkins University, 1958. Pathobiology.

Organ Cultures of Human Fetal Skin as Applied to the Study of Herpes simplex.

PAJA SIRIVORASARN, of Bangkok, Thailand, M. D. University of Medical Sciences, Bangkok, 1951. Pathobiology.

The Effect of Rearing Temperatures on Susceptibility in *Culex fatigans* and *Aedes aegypti* to DDT.

OSCAR CEBREN STINE, of Shepherdstown, W. Va., B. A. Oberlin College, 1950; M. D. George Washington University, 1954. Public Health Administration.

Evaluations of Activities of Physicians in Child Health Conferences.

RICHARD HAROLD SVIHUS, U. S. Navy, A. B. University of California at Berkeley, 1952; M. D. University of California at San Francisco, 1955; M. P. H. The Johns Hopkins University, 1959. Public Health Administration.

The Use of Health and Adjustment Agencies by U. S. Naval Recruits at the Naval Training Center, Great Lakes, Illinois.

PETER FRANZ DIRK VAN PEENEN, U. S. Navy, A. B. Princeton University, 1953; M. S. University of California at San Francisco, 1956; M. D., 1957; M. P. H. The Johns Hopkins University, 1959. Pathobiology.

Antigenic Analysis of *Trichinella spiralis* Larvae.

(7)

DOCTORS OF MEDICINE

WALTER EDWARD AFIELD, of Philadelphia, Pa., A. B. University of Pennsylvania, 1956.

LESLIE ALLAN BARD, of Baltimore, Md., B. A. The Johns Hopkins University, 1955.

ROBERT MCADOO BECHER, of Longmeadow, Mass., A. B. Harvard College, 1956.

ROSEMARY BIRD, of Newark, N. J., B. A. College of Wooster, 1956.

CARL LEE BIRK, of New Albany, Ind., B. A. Valparaiso University, 1956.

FREDERICK MARSH BLANTON, of Augusta, Ga., A. B. Amherst College, 1951.

GERALD PAUL BODEY, of Bethlehem, Pa., A. B. Lafayette College, 1956.

JAMES NEWTON BRAWNER, III, of Atlanta, Ga., A. B. Virginia Military Institute, 1956.

ROBERT EMMETT LEE CALHOUN, of Aberdeen, Wash., B. A. The Johns Hopkins University, 1956.

DOUGLAS SCOTT CALLANDER, of Delaware, Ohio, B. A. Ohio Wesleyan University, 1950.

GEORGE MELANTHON CALLARD, of Baltimore, Md., A. B. Princeton University, 1956.

STEPHEN PHILIP CARNEY, of Johnstown, Pa., B. A. The Johns Hopkins University, 1956.

WALTER FRANCIS CICERIC, of Portland, Ore., B. S. University of Portland, 1955.

CHARLES THOMAS CLAYDON, of Mount Vernon, N. Y., B. A. College of the Holy Cross, 1956.

SANFORD NED COHEN, of Jackson Heights, N. Y., B. A. The Johns Hopkins University, 1956.

CHARLES RICHARD CONTI, JR., of Bethlehem, Pa., A. B. Lehigh University, 1956.

CALVIN HORACE CURRY, JR., of Quincy, Fla., B. A. Washington and Lee University, 1956.

DAVID ERIC EIFRIG, of River Forest, Ill., B. A. Carleton College, 1956.

- HERBERT LEE ELLIOTT, of Baltimore, Md., B. A. The Johns Hopkins University, 1956.
- NANCY BURTON ESTERLY, of Mount Vernon, N. Y., B. A. Smith College, 1956.
- FREDERICK PAUL FEDER, JR., of Baltimore, Md., B. A. The Johns Hopkins University, 1956.
- THEOPHILUS AGRICOLA FEILD, III, of Charleston, W. Va., B. A. University of Virginia, 1955.
- RICHARD LAWRENCE FEIN, of Saugerties, N. Y., B. A. The Johns Hopkins University, 1956.
- JOHN ALFRED GOFFINET, of Tell City, Ind., B. A. Wabash College, 1954.
- SARA BEATTY GOFFINET, of Wilmington, Del., A. B. University of Delaware, 1956.
- DIETER WALTER ALBERT GUMP, of Upper Montclair, N. J., B. A. Swarthmore College, 1955.
- WILLIAM HARVEY HALL, of Fairfax, Va., B. A. University of Virginia, 1956.
- BARTHOLOMEW TONER HOGAN, of Chevy Chase, Md., B. A. University of Virginia, 1956.
- JAMES EMORY JORDAN, of Macon, Ga., B. S. Alabama Polytechnic Institute, 1956.
- WILLIAM DODGE KERR, JR., of Chicago, Ill., A. B. Williams College, 1956.
- GEORGE HERMAN KESSLER, JR., of Holland Patent, N. Y., A. B. University of Rochester, 1956.
- INGRID NANA KIHLESTEDT, of East New Market, Md., B. A. Wellesley College, 1952.
- FRANK BAKER KIMBALL, of Walla Walla, Wash., B. A. Whitman College, 1956.
- PHILIP MICHAEL KIROL, of New Castle, Pa., B. A. The Johns Hopkins University, 1956.
- HERBERT ARTHUR KUSHNER, of Baltimore, Md., B. A. Franklin and Marshall College, 1956.
- GEORGE WILLIAM LEWIS, of Bellaire, Texas, B. S. Southwestern University, 1956.
- STANLEY IRA MARGULIES, of Baltimore, Md., B. A., The Johns Hopkins University, 1956; M. A., 1956.
- RAYMOND JOSEPH MCGILL, JR., of Trenton, N. J., A. B. Princeton University, 1952.
- DONALD GEORGE MCKABA, of Brooklyn, N. Y., B. S. Washington and Lee University, 1956.
- EUGENE MOWRY MCKELVEY, of Derry, Pa., B. S. Yale University, 1956.
- WILLIAM EDGEFIELD MITCHELL, JR., of Atlanta, Ga., A. B. University of Chicago, 1955.
- RICHARD CARLYLE MONROE, of Baltimore, Md., A. B. Haverford College, 1956.
- HAROLD CONRAD NEU, of Omaha, Neb., B. A. Creighton University, 1956.
- JAMES HENRY NORTON, JR., of Salem, Mass., B. S. University of Notre Dame, 1956.
- A. AUSTIN PEARRE, JR., of Frederick, Md., B. A. University of Virginia, 1956.
- GEORGE EMORY PIERCE, of Saratoga, Wyo., B. S. University of Wyoming, 1955.
- ALLEN LEWIS PUSCH, of York, Pa., B. A. The Johns Hopkins University, 1956.
- HARRY GARFIELD RANDALL, II, of Buffalo, N. Y., B. A. University of Chicago, 1954.
- DAVID KALMAN RUBIN, of Chelsea, Mass., A. B. Dartmouth College, 1956.
- DANIEL GUSTAVE SAPIR, of Forest Hills, N. Y., A. B. Brown University, 1956.
- CHESTER WILLIAM SCHMIDT, JR., of New York, N. Y., B. A. The Johns Hopkins University, 1956.
- FREDERICK NOEL SCHWENTKER, of Baltimore, Md., B. A. Haverford College, 1956.
- ROBERT LEWIS SCOTT, of Bethesda, Md., B. A. The Johns Hopkins University, 1956.
- JOANNE SMITH T, of Opelika, Ala., B. A. Agnes Scott College, 1956.
- ARTHUR YALE SPRAGUE, of San Diego, Calif., A. B. San Diego State College, 1956.
- ERNEST VERNON STABLER, JR., of Greenville, Ala., B. A. University of Alabama, 1956.
- CHARLES DOUGLAS STEUART, of Baltimore, Md., B. A. Harvard College, 1956.
- TERRY WILLIAM TAYLOR, of Atlanta, Ga., A. B. Duke University, 1956.
- RONALD K. TOMPKINS, of Glouster, Ohio, A. B. Ohio University, 1956.
- ERIKA FURST TRAPP, of Mountville, N. J., A. B. Goucher College, 1956.
- GUSTAV CARL VOIGT, of Washington, D. C., A. B. University of Illinois, 1956.
- DAVID KERNDT WIECKING, of Alexandria, Va., A. B. Princeton University, 1954.
- FREDERICK CLYDE WORKMON, SR., of Fresno, Calif., A. B. Fresno State College, 1956.

MASTERS OF ARTS

in The School of Advanced International Studies

- ROBERT PRITCHARD ARMSTRONG, of New Rochelle, N. Y., A. B. Yale University, 1958.
- ALLEN RICHARDS BOYD, of New York, N. Y., A. B. Princeton University, 1955.
- MICHAEL ANTHONY CIPOLLARO, of New York, N. Y., B. S. Georgetown University, 1957.
- ROY EARL CLARK, of Arlington, Va., B. A. Pennsylvania State University, 1955.
- STEVEN SANBORN CONNER, of South Pasadena, Calif., B. A. Pomona College, 1957.
- JOANNA CORNELIUS, of Gaithersburg, Md., B. A. Tufts University, 1958.
- WILLIAM JEFFRAS DIETERICH, of Massillon, Ohio, B. A. Wesleyan University, 1958.
- ROHINI DIXIT, of Bombay, India, B. A. St. Xavier's College, University of Bombay, 1957.
- WILLIAM FOSTER EATON, of Baltimore, Md., B. A. Yale University, 1957.
- PAUL EHRLICH, of Newark, N. J., B. A. Harvard University, 1954.
- LAMBERTO GAZZINI, of Rome, Italy, Doctor in Law, University of Rome, 1958.
- ROBERT STEPHEN GINSBURG, of Baltimore, Md., A. B. Duke University, 1957.
- SYLVIA MORRISON HALPERN, of Washington, D. C., A. B. Barnard College, 1955.
- CECELIA ANNE HENRY, of Atlanta, Ga., B. A. Emory University, 1958.
- HENRY EMIL JAKUBIAK, of Farmington, Conn., A. B. Brown University, 1958.
- EMMY LOU KEARNEY, of New Rochelle, N. Y., B. A. Wellesley College, 1958.
- ALLEN D. KERR, of Rockville, Md., B. S. University of Pittsburgh, 1931.
- ELLEN DREWS KRISTENSEN, of Pasadena, Calif., B. A. Bryn Mawr College, 1955.
- KENNETH ADOLF KURZE, of Cranston, R. I., A. B. Brown University, 1956.
- HAROLD PHILIP KURZMAN, JR., of New York, N. Y., B. A. Haverford College, 1958.
- DAVID JOSEPH LEVIN, of Elkins Park, Md., B. S. Georgetown University, 1958.
- RENATO LO RE, of Rome, Italy, Laurea in Political Science, University of Rome, 1958.
- PAOLO MANCINELLI, of Rome, Italy, Laurea in Law, University of Rome, 1956.
- ROBERT ALLEN MCPHEETERS, JR., of St. Petersburg, Fla., B. A. Mexico City College, 1958.
- HARLAN GLENN MOEN, of Milwaukee, Wis., B. A. University of Wisconsin, 1958.
- JOEL GEDNEY MONTAGUE, of New York, N. Y., A. B. Oberlin College, 1956.
- DENNIS HOWARD MORRISSEY, of Pierre, S. D., B. S. Marquette University, 1956.
- ROBERT MORROW, of Centredale, R. I., B. A. Colby College, 1951.
- HUGH WILSON OLDS, JR., of La Mesa, Calif., A. B. George Washington University, 1953.
- ALFRED ORTIZ, of El Paso, Texas, B. A. Texas Western College, 1956.
- JOHN ALBERT RAVA, of University City, Mo., B. A. Harvard College, 1958.
- TOMAS OLOV ROSENBORG, of Washington, D. C., A. B. Ursinus College, 1957.
- EDWARD MICHAEL SACCHIET, of Washington, D. C., A. B. George Washington University, 1958.
- FRANCIS HUGH THOMAS, of Philadelphia, Pa., B. S. Drexel Institute of Technology, 1955.
- CLAUDIA WIENERT, of Niagara Falls, N. Y., B. A. Wellesley College, 1958.
- SAMIR MICHEL ZOGHBY, of Cairo, Egypt, B. A. American University of Beirut, 1957.

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DOCTOR OF PHILOSOPHY

*in the School of Advanced International Studies
with title of dissertation*

MANFRED HALPERN, of Princeton, N. J., A. B. University of California at Los Angeles, 1947; M. A. School of Advanced International Studies, The Johns Hopkins University, 1948.

The Politics of Social Change in the Middle East and North Africa.

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MASTERS OF ARTS IN TEACHING

JAMES GEORGE ANDERSON, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1957; M. S. E., 1959.

DOROTHY VIRGINIA FALLER BABA, of Silver Spring, Md., B. A. Trinity College, Washington, D. C., 1958.

SUZANNE JOY BLAIR, of Baltimore, Md., B. A. Western Maryland College, 1958.

GEORGE HUGO DALSHEIMER, of Owings Mills, Md., B. M. E. Cornell University, 1955.

ANNE MARIE DALY, of Newtonville, Mass., A. B. Regis College, 1959.

PATRICIA ANNE DAY, of Havertown, Pa., A. B. Oberlin College, 1959.

BARBARA ALYCE DENNIS, of Everett, Wash., B. A. Wells College, 1959.

LYNN FREDERICK, of Greenville, S. C., B. A. Agnes Scott College, 1959.

LAWRENCE HILTON FREEMAN, of Joplin, Mo., B. A. Wesleyan University, 1959.

BARBARA JANET GOLDSBY, of Chappaqua, N. Y., B. A. University of Kansas, 1959.

JOAN HARRISON HOPKINS, of Fairless Hills, Pa., A. B. Wilkeson College, 1957.

JUDITH PATTEE HUMMEL, of State College, Pa., B. A. Carleton College, 1959.

ELIZABETH ANN HUTCHESON, of Kingston, Pa., A. B. Goucher College, 1958.

*PATRICIA ADRIENNE KOBEL, of Chicago, Ill., B. S. Mundelein College, 1958.

DORIS SUSAN BERMAN KROME, of Baltimore, Md., A. B. Brandeis University, 1958.

* Awarded posthumously.

DOROTHY FORSYTH LIPPINCOTT, of Pennington, N. J., A. B. Wilson College, 1959.

RUTH ELAINE MARKS, of N. Miami Beach, Fla., A. B. Oberlin College, 1959.

ANNE MCQUADE, of Silver Spring, Md., A. B. Trinity College, Washington, D. C., 1959.

JUNE ELLEN MITCHELL, of Roanoke, Va., A. B. Randolph-Macon Woman's College, 1959.

RUTH ANN MUTCHLER, of Kensington, Md., B. A. University of Vermont, 1958.

BARBARA ANNE BURTON NICODEMUS, of Minneapolis, Minn., B. A. Carleton College, 1959.

RAPHAEL OWENS NYSTRAND, of Oak Park, Ill., B. A. Cornell College, 1959.

ARMAND MORRIS OPITZ, of Towson, Md., B. A. The Johns Hopkins University, 1958.

ROBERT PRESCOTT PARKER, JR., of Ridgewood, N. J., B. A. Williams College, 1959.

LEE ALLEN RISLEY, of Fairborn, Ohio, B. A. Kenyon College, 1958.

DONALD McMILLAN ROUTH, of Sandusky, Ohio, B. A. Amherst College, 1958.

MARIA ALINA PANEKIEWICZ ROWSE, of Baltimore, Md., A. B. Goucher College, 1959.

MARY MARGARET SCHRACK, of Shillington, Pa., A. B. Gettysburg College, 1959.

STUART ALBIN SCHUCK, of Baltimore, Md., B. A. The Johns Hopkins University, 1959.

EDWARD CARROLL SCOTT, of Stillwater, Okla., A. B. Antioch College, 1959.

EMANUEL ISRAEL SHARGEL, of Baltimore, Md., B. A. The Johns Hopkins University, 1957.

ROBERT CLARENCE SMOOT, of McDonogh, Md., B. S. The Pennsylvania State University, 1956.

FRANCES TABB GORDON THORNTON, of Richmond, Va., A. B. Sweet Briar College, 1959.

JOHN WEINGARTNER, of North Wales, Pa., A. B. Princeton University, 1959.

BRUCE ALAN WOODSON, of Baltimore, Md., B. A. Coe College, 1958.

NANCY LEE WOODYARD, of Charleston, W. V., B. A. Seton Hill College, 1959.

MAXINE ROTHMAN YEAGER, of New York, N. Y., A. B. Indiana University, 1956; A. M., 1959.

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MASTERS OF ARTS

with titles of essays

ELLIOTT BERLIN, of Baltimore, Md., B. S. The Johns Hopkins University, 1957. Chemistry.

JAMES ARTHUR BONAR, of Baltimore, Md., B. A. Drew University, 1957. History.

Ideology and Academic Ethics at Yale College from 1740 to 1766.

ALLEN BRODSKY, of Baltimore, Md., B. E. The Johns Hopkins University, 1949. Physics.

The Pulse Distributions in Stilbene Produced by 1-15 MEV Neutrons, Corrected for End Effect.

JOHN ANTHONY BURNS, of Kailua, Hawaii, B. A. University of Notre Dame, 1954; M. A. University of Chicago, 1955. Writing.

Calypso: A Collection of Poems and a Story.

MAURICE MOYER BURSEY, of Baltimore, Md., B. A. The Johns Hopkins University, 1959. Chemistry.

HENRY JOSEPH CAIN, S. J., of Waltham, Mass., B. A. Boston College, 1956; M. A., 1957. Classics.

ISOTTA CESARI, of Madison, Wis., B. S. Purdue University, 1955. Writing.

Poems and Plays.

JOHN JOSEPH CLANCY, JR., of East Islip, L. I., N. Y., B. S. Columbia University, 1957. History.

Godkin and the Negro Considered.

EDWARD COWAN, of Washington, D. C., A. B. Columbia University, 1954. Political Economy.

Automation and Labor.

ALBERT WILLIAM CURRIER, of Northfield, Vt., B. A. State University of Iowa, 1954. Mathematics.

MARCIA MASSING DANIEL, of Baltimore, Md., A. B. Goucher College, 1951. Education.

Analysis of the Families in Twenty-six Fictional Books Popular with Elementary School Age Children during the Years 1942-1948.

SUSAN SOLOMONT DARLING, of Baltimore, Md. Writing.

The Relationship Between Image, Object, and Idea in Marcel Proust.

ROBERT TEIR DENNIS, of Falls Church, Va., B. A. Dartmouth College, 1957. Geology.

MARIE GLORIA FLAHERTY, of Kearny, N. J., B. A. Douglass College, 1959. German.

ALDO JOHN FORTUNA, of Berlin, N. H., B. A. University of New Hampshire, 1957. English.

JOHN THATCHER FRENCH, of Stoughton, Mass., A. B. St. Vincent College, 1959. Writing.

Black Whipper-In: A Collection of Poems, a Story and an Essay.

LOUIS CLAUDE GAWTHROP, of Baltimore, Md., A. B. Franklin and Marshall College, 1958. Political Science.

The Democratic Advisory Council: An Experiment in Party Politics.

PAUL MALLORY HABERLAND, of Milwaukee, Wis., B. A. Haverford College, 1957. German.

NANCY JOYCE LINEKEN HAGELGANS, of Baltimore, Md., A. B. Goucher College, 1956. Mathematics.

EVELYN LINTHICUM HART, of Baltimore, Md., A. B. Goucher College, 1944; M. S. in L. S. The Catholic University of America, 1955. Writing.

New Developments in Post-War English Drama.

CHARLENE HENNESSY HAUN, of Milltown, N. J. Art.

The Symbology of Death in the Tombs of Bernini.

THOMAS MOORE HINES, of Columbia, S. C., A. B. The University of Georgia, 1958. Romance Languages.

MANFRED KARL HUMMEL, of Selma, Ala., B. A. Spring Hill College, 1959. German.

- CHARLES ROBERT JOHNSON, of Baltimore, Md., A. B. Columbia University, 1954. Writing.
Waiting: A Novella.
- ROSEMARIE ESTHER KEILHAU, of Waterloo, Ont., Canada, B. A. The University of Western Ontario, 1959. German.
- EUN-KOOK KIM, of Seoul, Korea. Writing.
A Dream within a Dream: A Novel.
- LIESELOTTE ELFRIEDE KURTH, of Baltimore, Md. German.
- JACOB WOOLF LANDYNSKI, of Brooklyn, N. Y., B. A. Brooklyn College, 1958. Political Science.
The Warren Court and the Fundamental Rights of the Criminal Defendant.
- KATHERINE PAUL LETCHER, of Lexington, Va., A. B. Hollins College, 1959. Writing.
The Muse in the Cowpasture: A Collection of Poems.
- JADWIGA JAWORSKA LOPEZ, of Mt. Wilson, Md. Political Science.
The Story of the Oder-Neisse Line: Its Origins and Its Repercussions on Polish-German Relations, 1945-1956.
- PATRICIA ELAINE MAGUIRE, of Baltimore, Md., A. B. Barnard College, 1950; A. M. The George Washington University, 1956. Writing.
Eternity in a Nutshell: A Novella.
- MACLYN McCARTY, JR., of Baltimore, Md., B. A. The Johns Hopkins University, 1957. Chemistry.
- ROBERT CURTIS MCKIBBEN, of Los Angeles, Calif., A. B. University of Southern California, 1957. English.
- CECIL ROBERT McMILLION, of Baltimore, Md., A. B. Glenville State College, W. Va., 1951. Chemistry.
- JAMES JOSEPH McNAMEE, III, of Baltimore, Md., B. A. The Johns Hopkins University, 1957. Romance Languages.
- ABRAHAM DAVID MILGROME, of Baltimore, Md. B. A. The Johns Hopkins University, 1957. Art.
The Theme of Triumph in the Vittoria di Michelangelo and Its Influence on Mannerist Sculpture.
- GUY DAVID NOTTINGHAM, JR., of Westminster, Md., Ph. B. Loyola College, 1951. Writing.
Kalib: A Collection of Stories.
- FRANCIS VALENTINE O'CONNOR, of Brooklyn, N. Y., B. A. Manhattan College, 1959. Writing.
The Fall of Icarus: A Collection of Poems and Translations.
- DANIEL EVANS PARKER, of Ramsey, N. J., B. A. Haverford College, 1958. Writing.
Metaphysician among the Dead: A Collection of Poems.
- HELENE FRANSSEN PERRY, of Salisbury, Md., A. B. Sweet Briar College, 1957. Physics.
A Determination of Background Radiation and the Effect of Shielding and the Mass of the Sigma-Plus Hyperon.
- RUTH LEAH RASCH, of Brooklyn, N. Y., B. A. Bryn Mawr College, 1957. Political Economy.
The Suppression of Patented Inventions.
- DAVID ANTHONY ROBERTS, of Utica, N. Y., B. A. Wesleyan University, 1958. Writing.
Narcissus Unrequited: A Collection of Poems.
- MIRIAM ARONSTEIN SAFREN, of Baltimore, Md., A. B. Temple University, 1957. Psychology.
A Critical Incident Study of Medication Errors and Near Errors in a Hospital.
- JAMES LAWRENCE SCOGGINS, of Chattanooga, Tenn., A. B. University of Chattanooga, 1958. English.
- ADELE MARYANN SICA, of Torrington, Conn., A. B. Albertus Magnus College, 1959. Romance Languages.
- ARNOLD P. SIMKIN, of Baltimore, Md., B. A. The Johns Hopkins University, 1959. Political Science.
Façade of Friendship: American-Russian Relations, 1863-1901.
- SOFÍA HERNÁNDEZ SINGMASTER, of Hato Rey, Puerto Rico, B. S. University of Puerto Rico, 1957. Chemistry.
- DEBORAH ARONSON STERN, of Harrisburg, Pa., A. B. University of Pennsylvania, 1957. Chemistry.
- MIRIAM DeCOSTA SUGARMON, of Memphis, Tenn., B. A. Wellesley College, 1956. Romance Languages.
- RALPH MYRON TANDOWSKY, of West Los Angeles, Calif., B. A. The Johns Hopkins University, 1952. Business and Industrial Management.
Salaries of American Union Officers, 1900-1958.
- JAMES DONALD TRACY, of University City, Mo., A. B. St. Louis University, 1959. Humanities.
- JOSEPHINE MARY TRUESCHLER, of Baltimore, Md., A. B. College of Notre Dame of Maryland, 1949; M. Ed. The Johns Hopkins University, 1954; Certificate of Advanced Study in Education, 1958. Writing.
The Hero: A Collection of Stories and Poems.
- WILLIAM ALEXANDER VAN HOOK, of Leicester, Mass., B. S. College of the Holy Cross, 1957. Chemistry.
- JOHN WESLEY WEIGEL, II, of Carlisle, Pa., A. B. Dickinson College, 1956. Physics.
The Identification of Elementary Particles in the Liquid Helium Bubble Chamber.

DOCTORS OF PHILOSOPHY

with titles of dissertations

- FRANCIS IAN ANDERSEN, of Melbourne, Australia, B. Sc. University of Queensland, 1946; M. S. University of Melbourne, 1951; B. A., 1955; B. D. University of London, 1956; M. A. The Johns Hopkins University, 1958. Oriental Seminary.
Studies in Hebrew Syntax.
- RICHARD GEORGE BARDES, of San Diego, Calif., B. A. The Johns Hopkins University, 1955. Physics.
Study of the $\text{Be}^0(d,n)\text{B}^{10}$ Reaction.
- GEORGE THOMAS BEECH, of Amherst, Mass., B. A. Michigan State College, 1954. History.
The Society of the Gâtine of Poitou in the Eleventh and Twelfth Centuries.
- ROBERT MARSHALL BENOLKEN, of Baltimore, Md., B. S. Marquette University, 1954. Biophysics.
Light and Dark Adaptation Studies on the Graded Receptor Potential of the Limulus Eye.
- ELIZABETH BROOKE BLACKBURN, of Charles Town, W. Va., B. A. Vassar College, 1931; M. A. The Johns Hopkins University, 1950. English.
The Place of Sir Thomas More in Sixteenth Century Biographical Theory.
- JOHN ALBERT BRAEMAN, of New York, N. Y., A. B. Harvard College, 1954. History.
Albert J. Beveridge: From Imperialism to Progressivism.
- JAMES M. BROADUS, JR., of Baltimore, Md., A. B. University of Alabama, 1941; M. A., 1948. Education.
A Study of Some of the Factors Affecting Teacher Understanding and Usage of Educational Research.
- GLENN ELLIS BROOKS, of Austin, Texas, B. A. The University of Texas, 1953; M. A., 1956. Political Science.
The Governors and National Politics.
- EDWARD BYERLY BRUCKER, of Baltimore, Md., B. E. The Johns Hopkins University, 1952. Physics.
The Mass of the Λ^0 Hyperon.
- IRVING H. BUCHEN, of New York, N. Y., B. A. New York University, 1952; A. M., 1955. English.
The Convex Vision: George Meredith's Major Novels.
- JAMES PEARSON CAIRNS, of Galt, Ont., Canada, B. A. University of Toronto, 1949; M. A. Columbia University, 1951. Political Economy.
Acquisitions, Concentration and Vertical Integration in Food Retailing.
- RICHARD GORDON CANHAM, of Williamsburg, Va., B. S. College of William and Mary, 1950; M. A. The Johns Hopkins University, 1954. Chemistry.
Third and Fourth Dissociation Constants of Pyrophosphoric Acid from 10° to 40°C and Related Thermodynamic Properties.
- EDWARD HILL CARLSON, of Lansing, Mich., B. S. Michigan State College, 1954; M. S., 1956. Physics.
Absorption and Fluorescence Spectra of NdCl_3 and States of the Neodymium Ion.
- ALEXANDER BURTON CHAMBERS, of Baltimore, Md., B. A. Vanderbilt University, 1954; M. A., 1955. English.
Image and Technique in the Religious Works of John Donne.
- JESSIE RHODES CHAMBERS, of Baltimore, Md., B. A. Scripps College, 1955. English.
The Allegorical Journey in *Joseph Andrews* and *Tom Jones*.
- IRENE HENDRY CHAYES, of Adelphi, Md., B. A. New York University, 1939; A. M., 1940. English.
The Circle and the Stair: Patterns of Romantic Theme and Form in the Poetry of Blake, Wordsworth, Coleridge, Shelley, and Keats.
- SAMUEL PINCKNEY COOK, of Long Beach, Calif., B. S. California Institute of Technology, 1952. Physics.
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- WILLIAM OLIVER CRIMINALE, JR., of Mobile, Ala., B. S. University of Alabama, 1955. Aeronautics.
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- PAUL CRAIG DECELLES, of Baltimore, Md., B. S. Rockhurst College, 1955. Physics.
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- LUDWIG RICHARD DEWITZ, of Decatur, Ga., B. D. University of London, 1945. Oriental Seminary.
The Role of the Hereafter in Ancient Israel.

- HERBERT WILLIAM DICKERMAN, of Brooklyn, N. Y., M. D. State University of New York, 1952. Biology.
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- JOSEPH BRUN DIGIORGIO, of Baltimore, Md., B. E. The Johns Hopkins University, 1954; M. A., 1957. Chemistry.
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- JOHN ALLAN DONALDSON, of Ottawa, Ont., Canada, B. Sc. Queen's University, Kingston, 1956. Geology.
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- ROBERT HERMAN DREWS, of Fond du Lac, Wis., B. A. Northwestern College, 1956; M. A. University of Missouri, 1957. Classics.
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- FRED DZIADEK, of Washington, D. C., A. B. Columbia University, 1955. Political Economy.
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- DORIS ROBERTS ENTWISLE, of Baltimore, Md., B. S. University of Massachusetts, 1945; M. S. Brown University, 1946. Education.
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- LAWRENCE EUGENE EVANS, of Birmingham, Ala., B. S. Birmingham-Southern College, 1953. Physics.
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- GEORGE LINCOLN FARRE, of Baltimore, Md., B. S. Lycee Van Vollenhoven, Dakar, 1946. Philosophy.
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- NATHAN FAST, of New York, N. Y., B. A. The City College of New York, 1952; M. A. The Johns Hopkins University, 1955. Geography.
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- RICHARD SEWELL FISKE, of Baltimore, Md., B. S. E. Princeton University, 1954; M. S. E., 1955. Geology.
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- DANIEL ISAAC FIVEL, of Baltimore, Md. Physics.
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- RACHEL FLOERSHEIM, of Haifa, Israel, M. A. The Hebrew University, Jerusalem, 1953. Political Economy.
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- DANIEL MARTIN FORSYTH, of Baltimore, Md., B. A. The Johns Hopkins University, 1957; M. A., 1958. Psychology.
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- SEYMOUR S. GOODMAN, of Brooklyn, N. Y., B. B. A. The City College of New York, 1954; M. A. Brown University, 1956. Political Economy.
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- JAMES FAUNTLEROY GOVAN, of Tuscaloosa, Ala., B. A. University of the South, 1948. History.
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- JOHN GRAHAM, of Washington, D. C., A. B. Georgetown University, 1949; A. M. Harvard University, 1954; M. A. The Johns Hopkins University, 1958. Aesthetics of Literature.
The Development of the Use of Physiognomy in the Novel.
- A. CLARKE HAGENSICK, of Milwaukee, Wis., B. A. The University of Wisconsin, 1955; M. A., 1956. Political Science.
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- LAURENCE BOWES HALFERDAHL, of Edmonton, Alta., Canada, B. Sc. Queen's University, Kingston, 1952; M. Sc., 1954. Geology.
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- ROYAL JOYSLIN HASKELL, JR., of West Hurley, N. Y., A. B. Syracuse University, 1952; M. A. The Johns Hopkins University, 1958. Psychology.
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- KENNETH WALKER HAUN, of Wheaton, Md., B. A. The University of Texas, 1952; M. A., 1956. Psychology.
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- ARTHUR B. KAHN, of Baltimore, Md., B. S. The City College of New York, 1951; M. S. E. The Johns Hopkins University, 1954. Meteorology.
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- TAE-KIL KIM, of Seoul, Korea, B.A. Seoul National University, 1947; M. of Phil., 1949. Philosophy.
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- ROBERT LEE KING, of Menlo Park, Calif., A.B. Stanford University, 1954. Psychology.
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- BLAIR KINSMAN, of Riva, Md., S.B. The University of Chicago, 1938; M.A. The Johns Hopkins University, 1953. Oceanography.
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- HANS HEINZ KRIMM, of Baltimore, Md., B.A. The Johns Hopkins University, 1955. Philosophy.
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- CLAUDE SPENCER LEFFEL, JR., of Baltimore, Md., A.B. St. John's College, 1943. Physics.
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- PAUL GALEN LENHERT, of Arcanum, Ohio, B.A. Wittenberg College, 1955. Biophysics.
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- FRANK BENSON LIPPS, of Catonsville, Md., B.A. The Johns Hopkins University, 1955. Meteorology.
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- ERNEST VICTOR LOEWENSTEIN, of Baltimore, Md., A.B. Cornell University, 1953. Physics.
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- JAMES HALL MATHEWSON, of Baltimore, Md., A.B. Harvard College, 1951; M.A. The Johns Hopkins University, 1957. Chemistry.
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- EARLE F. MCBRIDE, of Austin, Texas, A.B. Augustana College, 1954; M.A. University of Missouri, 1956. Geology.
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- DAVID B. MCCALMONT, of Lancaster, Pa., B.A. Yale College, 1932; LL.B., 1935. Political Economy.
Redistribution of Gold Reserves Among Federal Reserve Banks.
- JOHN LORENCE MEGO, of Baltimore, Md. Biology.
The Effect of Light on the Growth of Bean Plastids.
- JOHN CLARE MOORE, of Long Beach, N.Y., A.B. Rockhurst College, 1955. History.
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- WALTON MORRIS, of Baltimore, Md., B.A. College of Charleston, 1951; M.A. Duke University, 1953. Classics.
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- HELGA NEHRKORN, of Kasel, Germany, B.A. Memphis State College, 1955; M.A. The Johns Hopkins University, 1956. Classics.
Die Darstellung und Funktion der Nebencharaktere in Lucans *Bellum Civile*.
- EDWARD EPHREM O'BRIEN, of Toowoomba, Australia, B.E. University of Queensland, 1954; M.S.M.E. Purdue University, 1957. Mechanics.
On the Statistical Behavior of a Dilute Reactant in Isotropic Turbulence.
- OTTO HAROLD OLSEN, of Chapel Hill, N.C., A.B. Columbia University, 1957. History.
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- DWYNAL B. PETTENGILL, of Baltimore, Md., A.B. University of Florida, 1951; M.A., 1952. Political Science.
Campaign Finance in Maryland.
- WALTER ROBERT POWER, JR., of Monta Vista, Calif., B.S. University of Washington, 1949. Geology.
Geology and Petrology of Haiwee Ridge, Inyo County, California.
- WALTER HERBERT REICHEL, of Los Alamos, N.M., B.S. University of North Carolina, 1954. Physics.
Studies of the $\text{B}^{11}(\text{d}, \text{p})\text{B}^{11}$ Reaction.
- JOHN SAXBY RIGDEN, of Painesville, Ohio, B.S. Eastern Nazarene College, 1956. Chemistry.
The Kinetics of Isotopic-Exchange Reactions Involving Boron Hydrides.
- EDWIN MCKAY ROBERTS, III, of Amarillo, Texas, B.S. West Texas State College, 1955. Chemistry.
An Electron Spin Resonance Study of Some Copper and Vanadyl Porphyrins.
- GERASSIMOS GEORGE ROUSSOS, of Khartoum, Sudan, B.Sc. University of Khartoum, 1954. Biology.
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- RICHARD CARL SACKSTEDER, of New Haven, Conn., Ph. B. The University of Chicago, 1946; S. B., 1948. Mathematics.
On Local and Global Properties of Convex Sets and Hypersurfaces.
- WILSON L. SCOTT, of Washington, D. C., B. A. Yale College, 1931. History.
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- RICHARD ABNER SHEPPARD, of Lancaster, Pa., B. S. Franklin and Marshall College, 1956. Geology.
Petrology of the Simcoe Mountains Area, Washington.
- ROBERT JUDD SICKELS, of Burlington, Vt., A. B. The University of Chicago, 1950; M. A., 1954. Political Science.
State Party Committees as Representative Institutions.
- LEONARD SIGER, of Baltimore, Md., M. A. The University of Chicago, 1951. English.
The Image of Job in the Renaissance.
- LAWRENCE SIROVICH, of New York, N. Y., B. A. The Johns Hopkins University, 1956. Aeronautics.
On the Kinetic Theory of Steady Gas Flows.
- ROBERT LOUIS SLIGHTON, of Richmond Heights, Mo., A. B. Princeton University, 1953. Political Economy.
Taxation and Investment Incentives.
- GEORGE RICHARD STEVENS, of Baltimore, Md., B. A. The Johns Hopkins University, 1954; M. A., 1955. Geology.
Nature and Distribution of S-Planes in Maryland and Southern Pennsylvania.
- JACK SUGAR, of Baltimore, Md., B. A. The Johns Hopkins University, 1955. Physics.
The Spectra of Doubly and Triply Ionized Praseodymium.
- KENNETH ALLISON TRAYSER, of East Orange, N. J., B. S. Rensselaer Polytechnic Institute, 1955. Chemistry.
On the Mechanism of Action of Yeast Hexokinase.
- JOHN MALCOLM WALLACE, of Cambridge, England, B. A. Cambridge University, 1950; M. A. 1955. English.
Andrew Marvell: Three Commonwealth Poems.
- PRESCOTT HARRISON WILLIAMS, JR., of Austin, Texas, A. B. Wheaton College, 1947; B. D. Princeton Theological Seminary, 1950. Oriental Seminary.
The Testaments of the Twelve Patriarchs and the Qumran Literature.
- CHARLES RICHARD WYTENBACH, of Elmira, N. Y., A. B. Indiana University, 1954; M. A., 1956. Biology.
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